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L3	2292	713/176	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/28 15:06
L4	5813	713/175 or 713/156 or 713/186 or 713/157 or 713/158 or 705/75 or 283/13 or 382/276 or 382/308 or 382/115 or 902/3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/28 15:10
L5	7590	4 or 3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2006/02/28 15:10
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1   System R: relational approach to database management
M. M. Astrahan, M. W. Blasgen, D. D. Chamberlin, K. P. Eswaran, J. N. Gray, P. P. Griffiths, W. F. ⊦ Putzolu, I. L. Traiger, B. W. Wade, V. Watson
June 1976   **ACM Transactions on Database Systems (TODS)**, Volume 1 Issue 2
Publisher: ACM Press
Full text available: 📄 pdf(3.18 MB)   Additional Information: full citation, abstract, reference

System R is a database management system which provides a high level relational data interfac
independence by isolating the end user as much as possible from underlying storage structures
views on common underlying data. Data control features are provided, including authorization,
recovery subsystem, and facilities for maintaining ...

Keywords: authorization, data structures, database, index structures, locking, nonprocedural |

2   Object-based and image-based object representations
Hanan Samet
June 2004   **ACM Computing Surveys (CSUR)**, Volume 36 Issue 2
Publisher: ACM Press
Full text available: 📄 pdf(1.05 MB)   Additional Information: full citation, abstract, reference

An overview is presented of object-based and image-based representations of objects by their i
manner in which they can be used to answer two fundamental queries in database applications:
constituent cells (i.e., their locations in space). (2) Location query: given a cell (i.e., a location
objects) of which it is a member as well as the re ...

Keywords: Access methods, R-trees, feature query, geographic information systems (GIS), im
pyramids, quadtrees, space-filling curves, spatial databases

3   GPGPU: general purpose computation on graphics hardware
David Luebke, Mark Harris, Jens Krüger, Tim Purcell, Naga Govindaraju, Ian Buck, Cliff Woolley, A⊦
August 2004   **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '⊦**
Publisher: ACM Press
Full text available: 📄 pdf(63.03 MB)   Additional Information: full citation, abstract

The graphics processor (GPU) on today's commodity video cards has evolved into an extremely
architectures provide tremendous memory bandwidth and computational horsepower, with fully

support vector operations up to full IEEE floating point precision. High level languages have em power accessible. Architecturally, GPUs are highly parallel s ...

4   Distributed file systems: concepts and examples
Eliezer Levy, Abraham Silberschatz
December 1990   **ACM Computing Surveys (CSUR)**, Volume 22 Issue 4
Publisher: ACM Press
Full text available: 📄 pdf(5.33 MB)   Additional Information: full citation, abstract, reference

The purpose of a distributed file system (DFS) is to allow users of physically distributed comput common file system. A typical configuration for a DFS is a collection of workstations and mainfr implemented as part of the operating system of each of the connected computers. This paper e structure and decentralization of both data and con ...

5   Model and verification of a data manager based on ARIES
Dean Kuo
December 1996   **ACM Transactions on Database Systems (TODS)**, Volume 21 Issue 4
Publisher: ACM Press
Full text available: 📄 pdf(813.93 KB)   Additional Information: full citation, abstract, reference

In this article, we model and verify a data manager whose algorithm is based on ARIES. The wc and the definition of correctness is defined on the interface between the scheduler and the data

Keywords: ARIES, I/O automata, system failures

6   Object oriented relational database with SQL interface
Behrooz Seyed-Abbassi
March 1993   **Proceedings of the 1993 ACM conference on Computer science**
Publisher: ACM Press
Full text available: 📄 pdf(1.43 MB)   Additional Information: full citation, abstract, reference

An object oriented relational database management system to support heterogeneous object cl. sound information is considered. By employing a user friendly interface and Structured Query L with a three level architecture utilizes an extended SQL to operate on complex objects and to s join and overlay. These operations also suppo ...

7   Special issue on spatial database systems: Management of multidimensional discrete dat
Peter Baumann
October 1994   **The VLDB Journal — The International Journal on Very Large Data Bases**,
Publisher: Springer-Verlag New York, Inc.
Full text available: 📄 pdf(2.30 MB)   Additional Information: full citation, abstract, reference

Spatial database management involves two main categories of data: vector and raster data. Th latter still lacks a sound framework. Current DBMSs either regard raster data as pure byte sequ underlying semantics, or they do not complement array structures with storage mechanisms su specialized systems with sophisticated imaging functionality, but n ...

Keywords: Multimedia database systems, image database systems, spatial index, tiling

8   National id card: the next generation: The US/Mexico border crossing card (BCC): a case
Andrew Schulman
April 2002   **Proceedings of the 12th annual conference on Computers, freedom and pri**
Publisher: ACM Press

Full text available: 🗊 htm(187.31 KB)   Additional Information: full citation, index terms

9 Crowd and group animation

Daniel Thalmann, Christophe Hery, Seth Lippman, Hiromi Ono, Stephen Regelous, Douglas Sutton
August 2004   **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '(**
Publisher: ACM Press
Full text available: 📄 pdf(20.19 MB)   Additional Information: full citation, abstract

A continuous challenge for special effects in movies is the production of realistic virtual crowds,
present state-of-the-art techniques and methods. The course will explain in details the different
with flocking techniques using attraction and repulsion forces, copy and pasting techniques, age
will be presented including the MASSIVE softwa ...

10 Object management in distributed information systems

Peter Lyngbaek, Dennis McLeod
May 1984 **ACM Transactions on Information Systems (TOIS)**, Volume 2 Issue 2
Publisher: ACM Press
Full text available: 📄 pdf(1.81 MB)   Additional Information: full citation, references, citings, index terms

11 A database cache for high performance and fast restart in database systems

Klaus Elhardt, Rudolf Bayer
December 1984   **ACM Transactions on Database Systems (TODS)**, Volume 9 Issue 4
Publisher: ACM Press
Full text available: 📄 pdf(1.72 MB)   Additional Information: full citation, abstract, reference

Performance in database systems is strongly influenced by buffer management and transaction
the database cache, which replaces the traditional buffer. In comparison to buffer management
transaction management, and integrates transaction recovery. High throughput of small- and m
processing and low database traffic. Very fas ...

12 Client-server computing in mobile environments

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid
June 1999   **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2
Publisher: ACM Press
Full text available: 📄 pdf(233.31 KB)   Additional Information: full citation, abstract, reference

Recent advances in wireless data networking and portable information appliances have engende
computing, in which users carrying portable devices have access to data and information servic
behavior. In the meantime, research addressing information access in mobile environments has
framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data disseminatio
client/server, mobile compuing, mobile data, mobility awareness, survey, system application

13 Final report of the ANSI/X3/SPARC DBS-SG relational database task group

July 1982 **ACM SIGMOD Record**, Volume 12 Issue 4
Publisher: ACM Press
Full text available: 📄 pdf(4.69 MB)   Additional Information: full citation

14 Query evaluation techniques for large databases

Goetz Graefe

June 1993   **ACM Computing Surveys (CSUR)**, Volume 25 Issue 2

Publisher: ACM Press

Full text available: pdf(9.37 MB)   Additional Information: full citation, abstract, reference

Database management systems will continue to manage large data volumes. Thus, efficient alg
sequences will be required to provide acceptable performance. The advent of object-oriented ar
problem. On the contrary, modern data models exacerbate the problem: In order to manipulate
database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible databi
systems, operator model of parallelization, parallel algorithms, relational database systems, set

15 Evaluation of an algorithm for finding a match of a distorted texture pattern in a large imag

N. Vujovic, D. Brzakovic

January 1998   **ACM Transactions on Information Systems (TOIS)**, Volume 16 Issue 1

Publisher: ACM Press

Full text available: pdf(499.06 KB)   Additional Information: full citation, abstract, reference

Evaluation of an algorithm for finding a match for a random texture pattern in a large image da
assuming that the random pattern may be subject to misregistration relative to its representati
missing parts. The potential applications involve authentication of legal documents, bank notes,
randomly into the document medium during medium fabrication. Th ...

Keywords: image database, image matching, misregistration, presentation of information, ran

16 ARIES: a transaction recovery method supporting fine-granularity locking and partial rollba

C. Mohan, Don Haderle, Bruce Lindsay, Hamid Pirahesh, Peter Schwarz

March 1992   **ACM Transactions on Database Systems (TODS)**, Volume 17 Issue 1

Publisher: ACM Press

Full text available: pdf(5.23 MB)   Additional Information: full citation, abstract, reference

DB2TM, IMS, and TandemTM systems. ARIES is applicable not only to database management s
recoverable file systems and transaction-based operating systems. ARIES has been implemente
Database Manager, DB2, Workstation Data Save Facility/VM, Starburst and QuickSilver, and in

Keywords: buffer management, latching, locking, space management, write-ahead logging

17 Garbage collection for a client-server persistent object store

Laurent Amsaleg, Michael J. Franklin, Olivier Gruber

August 1999   **ACM Transactions on Computer Systems (TOCS)**, Volume 17 Issue 3

Publisher: ACM Press

Full text available: pdf(267.18 KB)   Additional Information: full citation, abstract, reference

We describe an efficient server-based algorithm for garbage collecting persistent object stores i
incremental and runs concurrently with client transactions. Unlike previous algorithms, it does r
require callbacks to clients. It is fault-tolerant, but performs very little logging. The algorithm h
and therefore it works with standard i ...

Keywords: client-server system, logging, persistent object-store, recovery

18 Types and persistence in database programming languages

Malcolm P. Atkinson, O. Peter Buneman
June 1987   **ACM Computing Surveys (CSUR)**, Volume 19 Issue 2

Publisher: ACM Press

Full text available: pdf(7.91 MB)   Additional Information: full citation, abstract, reference

Traditionally, the interface between a programming language and a database has either been tl has required some form of embedding of one language in another. Recently, the necessity of in techniques has received some long-overdue recognition. In response, a number of attempts ha· completely integrated database management systems. These lang ...

19 Database abstractions: aggregation and generalization

John Miles Smith, Diane C. P. Smith
June 1977   **ACM Transactions on Database Systems (TODS)**, Volume 2 Issue 2

Publisher: ACM Press

Full text available: pdf(2.02 MB)   Additional Information: full citation, abstract, reference

Two kinds of abstraction that are fundamentally important in database design and usage are de relationship between objects into an aggregate object. Generalization is an abstraction which tu suggested that all objects (individual, aggregate, generic) should be given uniform treatment ir generic, is developed as a primitive for defining such m ...

Keywords: aggregation, data abstraction, data model, data type, database design, generalizat relational database

20 Index structures for selective dissemination of information under the Boolean model

Tak W. Yan, Héctor García-Molina
June 1994   **ACM Transactions on Database Systems (TODS)**, Volume 19 Issue 2

Publisher: ACM Press

Full text available: pdf(2.03 MB)   Additional Information: full citation, abstract, reference

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IEE JNL	IEE Journal or Magazine
IEEE CNF	IEEE Conference Proceeding
IEE CNF	IEE Conference Proceeding
IEEE STD	IEEE Standard

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